RTP EMI 461

High Impact Polystyrene

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'
The data for this material has not been recently verified.
Please contact RTP Company for current information prior to specifying this grade.

General Information			
Filler / Reinforcement	Stainless steel fiber, 10% filler by weight		
Additive	Impact modifier		
Features	Impact modification Electromagnetic shielding (EMI) Electrostatic discharge protection Antistatic property Impact resistance, high Radio frequency shielding (RFI)		
Agency Ratings	MIL B-81705C		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.14	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40 - 0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2070	MPa	ASTM D638
Tensile Strength	220	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	44.8	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	800	J/m	ASTM D4812
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	10	ohms	ASTM D257
Volume Resistivity	1.0E+2	ohms·cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.52 mm, Values per RTP Company testing.)	HB		UL 94

Additional Information
Molding Shrinkage, Linear-Flow, ASTM D955, 3.175mm: 4-5mm/mVolume Resistivity, ASTM D257: 1-100 ohm-cmSurface Resistivity, ASTM D257: 1E2-1E5 ohms/sqStatic Decay, FTMS-4046.1, Mil B-81705C: <2.0 seconds

Injection	Nominal Value	Unit
Rear Temperature	193 - 266	°C
Middle Temperature	193 - 266	°C
Front Temperature	193 - 266	°C
Mold Temperature	48.9 - 82.2	°C
Injection Pressure	68.9 - 138	MPa

Recommended distributors for this material

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